## Approaches to Machine Learning

- We'll take a short, high-level I lessons.



- Classification: Outputs are categorical.

  Regression: Outputs are continuous and numerical.

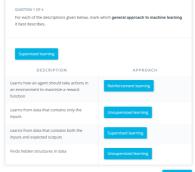
  Similarity learning: Learns from examples using a similarity function that measures how similar two objects are.

  Feature learning: Learns to automatically discover the representations or features from raw data Anomaly detection. A special form of classification, which learns from data labeled as normal/abnormal.

Unsupervised learning
Learns from input data only: finds hidden structure in input data.

- Reinforcement learning Learns how an agent should take action in an environment in order to maximize a reward function

The main difference between reinforcement learning and other machine learning approaches is that reinforcement learning is an order process where the actions of the agent influence the data observed in the future, there influencing its own potential future states. In contrast, supervised unsupervised learning approaches are possive processes where learning is performed without any actions that could influence the data.





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Harry is an IT admin responsible for managing a legacy Web application. He has accesseive performance legic with real-time system performance metrics (CVL memory unifization, number of universions, number of threads, etc.). It is task is to use ML to generate automated real-time alerts for preemptively detecting potential service outs

